

Product datasheet for **RG219661**

Junctophilin 2 (JPH2) (NM_020433) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Junctophilin 2 (JPH2) (NM_020433) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JPH2
Synonyms:	CMH17; JP-2; JP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG219661 representing NM_020433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGGGGCCGCTTCGACTTTGATGATGGAGGGGCGTACTGCGGGGCTGGGAGGGGGAAAGGCC
 ATGGGCATGGAAGTGTGCACAGGCCCAAGGGCCAGGGCGAATACTCTGGCTCCTGGAACCTTTGGCTTTGA
 GGTGGCAGGTGTCTACACCTGGCCAGCGGAAACACCTTTGAGGGATACTGGAGCCAGGGCAAACGGCAT
 GGGCTGGGCATAGAGACCAAGGGGCGCTGGCTCTACAAGGGCGAGTGGACACATGGCTTCAAGGGACGCT
 ACGGAATCCGGCAGAGCTCAAGCAGCGGTGCCAAGTATGAGGGCACCTGGAACAATGGCTGCAAGACGG
 CTATGGCACCGAGACCTATGCTGATGGAGGGACGTACCAAGGCCAGTTCACCAACGGCATGCGCCATGGC
 TACGGAGTACGCCAGAGCGTGCCTACGGGATGGCCGTGGTGGTGCCTCGCCGCTGCGCACGTGCTGT
 CGTCCCTGCGCAGCGAGCACAGCAACGGCACGGTGGCCCCGACTCTCCCGCTCGCCGGCTCCGACGG
 CCCCGCGCTGCCCTCGCCGCCATCCCGGTGGCGGCTTCGCGCTCAGCCTCCTGGCCAATGCCAGGGCG
 GCCGCGCGGGCGCCAAAGGGCGGGCCCTTCCAGCGGGGCGCGCTGCTGGGCAAGCTGCGGGCGCGAG
 AGTCGCGCACGTCCGTGGGTAGCCAGCGCAGCCGTGTCAGCTTCCCTTAAGAGCGACCTCAGCTCGGGCGC
 CAGCGACGCCGCTCCACCGCCAGCCTGGGAGAGGGCGCCGAGGGCGCCGACGAGGCCGACCCCTTCGAG
 GCCGATATCGACGCCACCACCAGGAGCTACATGGGCGAGTGGAAAGACGACAACGCTCGGGCTTCG
 GCGTGAGCGAACGCTCCAGTGGCTCCGCTACGAGGGCGAGTGGCTGGACAACCTGCGCCACGGCTATGG
 CTGACCACGCTGCCCGACGGCCACCGGAGGAGGGCAAGTACCGCCACAACGTGCTGGTCAAGGACACC
 AAGCGCCGCTGCTGCAGCTCAAGAGCAACAAGTCCGCCAGAAAGTGGAGCACAGTGTGGAGGGTGCCC
 AGCGCGCCGCTGCTATCGCGGCCAGAAGGCCGAGATTGCCGCTCCAGGACAAGCCACGCCAAGGCCAA
 AGCTGAGGCAGCGGAACAGGCCGCCCTGGCTGCCAACCAGGAGTCCAACATTGCTCGCACTTTGGCCAGG
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 CCCCCGACGCCAAGCGGCCAGGCCGGGGTGTCCAAGGACGGCTGCTGAGCCAGGGCGCTGGAACG
 GCGAGCCAGCGGTGAGGGCAGCCGTCAGTCACTCCGTCGAGGGCGCGGGCCGCCGACGCCCGCGCG
 TCCAGCCACCGAGCGCATGGCCATCGAGGCTCTGCAGGCACCGCCTGCGCCGTCGCGGGAGCCGGAGGTG
 GCGCTTACCAGGGCTACCACAGCTATGCTGTGCGCACACCGCCCGGAGCCCCACCCTTTGAGGACC
 AGCCCCGAGCCGAGGTCTCCGGTCCGAGTCCGCGCCCTCGTCCCGGCCACCGCCCCGCTGCAGGCCCC
 CACGCTCCGAGGCCCGAGCCTGCACGCGAGACCCCCGCAAGCTGGAGCCCAAGCCATCATCCCCAAA
 GCCGAGCCAGGGCCAAGGCCCGCAAGACTGAGGCTCGAGGGCTGACCAAGGCGGGGGCCAAGAAGAAGG
 CGCGGAAGGAGCCGCACTGGCGGCAGAGGGCGAGGTGGAGGTGGAAGAGGTCCCCAACACCATCCTCAT
 CTGCATGGTGATCCTGCTGAACATCGGCCCTGGCCATCCTTTGTTACCTCCTGACC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219661 representing NM_020433
 Red=Cloning site Green=Tags(s)

MSGGRFDFFDDGGAYCGGWEGGKAHGHGLCTGPKGQGEYSGSWNFGFEVAGVYTWPSGNTFEGYWSQGKRH
 GLGIETKGRWL YKGEWTHGFKGRYGIHQSSSSGAKYEGTWNNGLQDGYGTETADGGTYQGQFTNGMRHG
 YGVRQSVPYGMVVVRSPLRTSLSSLRSEHSNGTVAPDSPASPADGPALPSPAIPRGGFALSLLANAEA
 AARAPKGGGLFQRGALLGKLRRAESRTSVGSQRSRVFLKSDLSSGASDAASTASLGEAAEGADEAAPFE
 ADIDATTTETYMGEWKNDKRSFGVSESSGLRYEGEWLDNLRHGYGCTTLPDGHREEGKYRHNVLVKDT
 KRRMLQLKSNKVRQKVEHSVEGAQRAAAIARQKAEIAASRTSHAKAKAEAAEQAALANQESNIARTLAR
 ELAPDFYQPGPEYQKRLLQEILENSELLEPPDRGAGAAGLPQPPRESPQLHERETPRPEGGSPSPAGT
 PPQPKRPRPGVSKDGLLSPGAWNGEPSGEGSRVTPSEGAGRRSPARPATERMAIEALQAPPAPSREPEV
 ALYQGYHSYAVRTTPPEPPPFEDQPEPEVSGSESAPSSPATAPLQAPTLLRGPEPARETPAKLEPKPIPK
 AEPRAKARKTEARGLTKAGAKKKARKEAALAAEAEEVEVEVPNTILICMVILLNIGLAILFVHLLT

TRTRPLE - GFP Tag - V

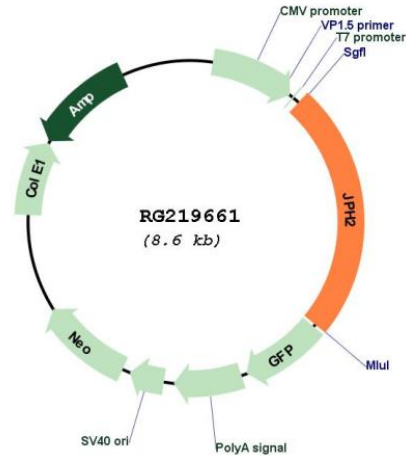
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020433

ORF Size: 2088 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_020433.5](#)

RefSeq Size: 4802 bp

RefSeq ORF: 2091 bp

Locus ID: 57158

UniProt ID: [Q9BR39](#)

Cytogenetics: 20q13.12

Protein Families: Transmembrane

Gene Summary: Junctional complexes between the plasma membrane and endoplasmic/sarcoplasmic reticulum are a common feature of all excitable cell types and mediate cross talk between cell surface and intracellular ion channels. The protein encoded by this gene is a component of junctional complexes and is composed of a C-terminal hydrophobic segment spanning the endoplasmic/sarcoplasmic reticulum membrane and a remaining cytoplasmic domain that shows specific affinity for the plasma membrane. This gene is a member of the junctophilin gene family. Alternative splicing has been observed at this locus and two variants encoding distinct isoforms are described. [provided by RefSeq, Jul 2008]